

ABSTRACT OF DISCLOSURE

A phosphor having longer lifespan which includes sulfur and has a perovskite structure. The phosphor further satisfies the following formula:



where M is an alkali earth metal and A is a rare earth element. The sulfur-containing phosphor shows good luminance and lifespan characteristics compared to existing SrTiO_3 based phosphors, without containing cadmium that is harmful to the environment. Therefore, the phosphor is advantageously utilized for various display applications including vacuum fluorescent displays (VFDs) and field emission displays (FEDs).

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